

WHAT IS CLAIMED IS:

1. A measure system for linear planar stepping motor,
comprising:

a magnetic sensor, which is used to measure flux density on
5 stator of a linear planar stepping motor, so as to obtain precise position
feedback;

a residual magnetic field stable device, which is provided on the
outer periphery of the magnetic sensor, so as to enable the magnetic
sensor to measure accurate position of the stator with the measured
10 variation of the magnetic flux density.

2. The measure system for linear planar stepping motor as
claimed in claim 1, wherein the residual magnetic field stable device
surrounds the outer periphery of the magnetic sensor.

3. The measure system for linear planar stepping motor as
15 claimed in claim 1, wherein the residual magnetic field stable device has
N pole and S pole.

4. The measure system for linear planar stepping motor as
claimed in claim 3, wherein the N pole and the S pole of the residual
magnetic field stable device are formed by permanent magnet, inner
20 cover and outer covers with good magnetic inductivity.

5. The measure system for linear planar stepping motor as
claimed in claim 3, wherein the N pole and the S pole of the residual
magnetic field stable device are formed by electrical magnet, inner cover
and outer covers with good magnetic inductivity.

6. The measure system for linear planar stepping motor as claimed in claim 3, wherein the residual magnetic field on the stator of the linear planar stepping motor is magnetized nearly to saturation state.